## Index of Claims

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| App | IICS | ıtion | NO. |

09/845,749

Examiner

Applicant(s)

BALNAVES, JAMES A.

Art Unit

Joshua D Campbell

2179

| <b>√</b> | Rejected |
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| =        | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| Cla        | aim      | Date           |          |                       |   | Cla                 | Date   |  |       |       |          | CI       | aim                   | Date    |                    |        |  |       |            |          |         | $\neg$ |        |        |        |        |         |           |        |
|------------|----------|----------------|----------|-----------------------|---|---------------------|--------|--|-------|-------|----------|----------|-----------------------|---------|--------------------|--------|--|-------|------------|----------|---------|--------|--------|--------|--------|--------|---------|-----------|--------|
|            | al .     | _              |          |                       |   |                     |        |  | 7     |       | _        |          |                       |         | П                  |        |  |       |            | _        |         |        |        |        | П      |        |         | П         |        |
| Final      | Original | 7/23/04        |          |                       |   | 1 1                 |        |  |       | Final | Original | 7/23/04  |                       |         |                    | -      |  |       | Final      | Original |         |        |        | ļ      |        |        |         |           |        |
| ι <u>Έ</u> | jr.      | 12/            |          |                       |   | 1 1                 |        |  |       | ᇤ     | rig      | /23      |                       |         |                    |        |  |       | i <u>È</u> | )rig     |         | ł      | ŀ      | 1      |        |        | -       |           |        |
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|            | 1        | <b>V</b>       | 1        |                       |   |                     |        |  |       |       | 51       | <b>/</b> |                       |         |                    |        |  | 7     |            | 101      |         |        |        |        | $\neg$ | $\neg$ |         | $\Box$    |        |
|            | 2        | 1              |          |                       |   | П                   |        |  | 7     |       | 52       | r        |                       |         |                    |        |  | 7     |            | 102      |         | Ī      |        |        |        |        |         |           |        |
|            | 3        |                | 1        |                       |   |                     | T      |  |       |       | 53       | 1        |                       |         | $\Box$             |        |  |       |            | 103      |         |        |        |        |        |        |         |           | コ      |
|            | 4        | 1              | Τ        |                       |   | П                   |        |  |       |       | 54       | I        |                       |         |                    |        |  |       |            | 104      |         |        |        | $\neg$ |        |        |         | T         | ٦      |
|            | 5        |                |          |                       |   |                     |        |  |       |       | 55       | T        |                       |         | 111                |        |  |       |            | 105      |         |        |        |        | 一      |        | $\neg$  | T         | ٦      |
|            | 6        | П              |          |                       |   |                     |        |  | 7:::: |       | 56       |          |                       |         |                    |        |  |       |            | 106      |         |        |        |        |        |        |         |           |        |
|            | 7        |                |          | П                     |   | П                   |        |  |       |       | 57       | T        |                       |         |                    |        |  |       |            | 107      |         |        | Ī      |        |        |        |         |           |        |
|            | 8        | $\coprod$      |          |                       |   |                     |        |  |       |       | 58       | ľ        |                       |         |                    |        |  |       |            | 108      |         |        |        |        |        |        |         |           |        |
|            | 9        |                |          |                       |   |                     |        |  |       |       | 59       | П        |                       |         |                    |        |  |       |            | 109      |         | [      |        |        |        |        |         |           |        |
|            | 10       | П              |          |                       |   | [                   |        | $\neg \Gamma$                              |       |       | 60       | П        |                       |         |                    |        |  |       |            | 110      |         |        |        |        |        |        |         |           |        |
|            | 11       | $\prod$        |          |                       |   |                     |        |  |       |       | 61       |          |                       | $\Box$  |                    |        |  |       |            | 111      |         |        |        | $\Box$ | $\Box$ | $\Box$ |         |           |        |
|            | 12       | $\prod$        |          |                       | $oldsymbol{ol}}}}}}}}}}}}}$ |                     | $\Box$ | $oldsymbol{oldsymbol{oldsymbol{\square}}}$ |       |       | 62       | I        |                       | $\perp$ |                    |        |  |       |            | 112      |         |        |        |        |        |        |         | J         |        |
|            | 13       | $\coprod$      |          | $\Box \Box$           |   |                     |        |  |       |       | 63       |          | Ш                     |         |                    |        | $\Box \Box$                                  | ]     |            | 113      |         |        |        |        |        |        |         |           |        |
|            | 14       | Ш              | $\perp$  |                       |   | Ш                   |        |  | ]:::: |       | 64       |          |                       |         |                    |        |  |       |            | 114      |         |        |        |        | J      |        |         |           |        |
|            | 15       | $\coprod$      |          |                       |   | Ш                   |        |  |       |       | 65       | $\prod$  | $\coprod$             |         |                    |        |  |       |            | 115      |         |        |        |        |        |        |         | $_{J}$    |        |
|            | 16       | П              |          |                       |   |                     |        |  |       |       | 66       |          |                       |         | П                  |        |  |       |            | 116      |         |        |        |        |        |        |         |           |        |
|            | 17       | П              |          | $\Box T$              |   |                     |        |  |       |       | 673      |          |                       |         |                    |        |  | ]     |            | 117      |         |        |        |        |        |        |         | $\Box$    |        |
|            | 18       | П              |          |                       |   |                     |        |  |       |       | 68       | 4        |                       |         |                    |        |  |       |            | 118      |         |        |        |        | $\Box$ |        |         |           | $\neg$ |
|            | 19       | Ш              |          |                       |   |                     |        |  |       |       | 69       | A        |                       |         |                    |        |  |       |            | 119      |         |        |        |        |        |        |         | $\neg$    |        |
|            | 20       | П              |          |                       |   |                     |        |  |       |       |          | ン        |                       |         |                    |        |  |       |            | 120      |         |        |        |        |        |        |         |           |        |
|            | 21       | П              |          |                       |   | П                   |        |  |       |       | 71       |          |                       |         | T                  |        |  |       |            | 121      |         |        |        |        |        |        |         | $\exists$ | $\neg$ |
|            | 22       | П              |          | П                     |   |                     |        |  |       |       | 72       |          |                       |         | TT                 |        |  |       |            | 122      |         |        |        |        | 一      |        |         |           |        |
|            | 23       |                |          |                       |   | -                   |        |  |       |       | 73       |          |                       |         |                    |        |  |       |            | 123      |         |        |        |        |        |        |         |           |        |
|            | 24       |                |          |                       |   |                     |        |  |       |       | 74       |          |                       |         |                    |        |  |       |            | 124      |         |        |        |        |        |        |         | $\exists$ | $\neg$ |
|            | 25       |                |          |                       |   |                     |        |  |       |       | 75       |          |                       |         |                    |        |  |       |            | 125      |         |        |        |        |        |        |         |           |        |
|            | 26       |                |          |                       |   |                     |        |  |       |       | 76       |          |                       |         |                    |        |  |       |            | 126      |         |        |        |        |        |        |         | П         |        |
|            | 27       |                |          |                       |   |                     |        |  | ]:::: |       | 77       |          |                       |         |                    |        |  |       |            | 127      |         |        |        |        |        |        |         |           |        |
|            | 28       | $\coprod$      |          |                       |   |                     |        |  |       |       | 78       |          |                       |         |                    |        |  |       |            | 128      |         |        |        |        |        |        |         |           | $\neg$ |
|            | 29       | П              |          |                       |   |                     |        |  |       |       | 79       |          |                       |         |                    |        |  |       |            | 129      |         |        |        |        |        |        |         | $\Box$    |        |
|            | 30       | П              |          |                       |   |                     |        |  |       |       | 80       |          |                       |         |                    |        |  |       |            | 130      |         |        |        |        |        |        |         | $\Box$    |        |
|            | 31       | L              |          |                       |   |                     |        |  |       |       | 81       |          |                       |         |                    |        |  |       |            | 131      |         |        |        |        |        |        |         |           |        |
|            | 32       | L              |          |                       |   |                     |        |  |       |       | 82       |          |                       |         |                    |        |  |       |            | 132      |         |        |        |        |        |        |         |           |        |
|            | 33       |                |          |                       |   |                     |        |  |       |       | 83       |          |                       |         | $\perp \perp$      |        |  |       | Ĺ          | 133      |         |        |        |        |        |        |         |           |        |
|            | 34       | 1              |          |                       |   | $\sqcup$            |        |  | 1     |       | 84       |          |                       |         |                    |        |  |       |            | 134      |         | [      |        |        |        |        |         |           |        |
|            | 35       | Ц              |          | $\sqcup \!\!\! \perp$ |   |                     | _      |  | 4     |       | 85       |          | $\sqcup$              | $\perp$ | $\perp \perp$      |        | $\Box$                                       |       | L          | 135      |         |        |        | [      |        | $\Box$ |         |           |        |
|            | 36       | Ц              |          | $\sqcup \bot$         |   |                     | _      | $\perp$                                    | 4     |       | 86       |          |                       | $\perp$ |                    |        |  |       |            | 136      |         |        |        | [      | [      |        | $\perp$ | [         |        |
|            | 37       | Ц              | _        | $\sqcup \!\!\! \perp$ | $\bot$  | $\sqcup$            |        |  |       |       | 87       |          |                       | $\perp$ |                    |        |  |       |            | 137      |         | _      |        |        | [      | _[     |         | [         |        |
|            | 38       | Ц              | _        | <b>  </b> .           |   | 11                  | ļ      | $\perp$                                    | 1     |       | 88       |          | $\sqcup \bot$         |         | oxdot              | ļ      | $\sqcup$                                     |       |            | 138      |         |        |        | _      | _[     | [      |         |           |        |
| igsquare   | 39       | Ц              | <u> </u> | $\sqcup$              | $\bot$  | $\sqcup$            |        |  | 1     |       | 89       | <u>L</u> | $\sqcup \bot$         |         | $\perp \perp$      |        | <u>                                     </u> |       |            | 139      |         | _      |        |        |        | _      |         | $\Box$    |        |
|            | 40       | Ц              |          | $\sqcup \bot$         | $\perp$   | $\sqcup \bot$       | _      |  |       |       | 90       |          | $\sqcup$              | $\bot$  | $oxed{oxed}$       |        | $\sqcup \bot$                                | _     |            | 140      |         |        |        | [      |        |        | $\Box$  | $\Box$    |        |
|            | 41       | Ц              | _        | $\sqcup \bot$         | $\perp$   | $\sqcup$            | _      |  | 1     |       | 91       | _        | $oxed{oxed}$          | $\perp$ | 1                  |        |  |       |            | 141      |         |        |        | [      | _[     |        |         | $\perp$   | $\Box$ |
|            | 42       | Ц              | <u>L</u> |                       |   | 1_1                 | _      | $\perp$                                    | 1:::: |       | 92       | _        | $\sqcup$              |         | $\perp \perp$      |        | $\sqcup \bot$                                |       | L          | 142      |         | _[     | _[     | _[     | [      | [      | $\bot$  | $\Box$    |        |
|            | 43       | Ц              | L        | $\sqcup$              |   |                     | _      |  |       |       | 93       | <u> </u> |                       |         |                    | $\bot$ |  |       |            | 143      |         | [      | [      | [      |        | [      |         |           |        |
| L          | 44       | Ш              | II_      | $\sqcup \bot$         |   | $\perp \downarrow$  |        |  |       |       | 94       | <u> </u> | $\sqcup$              |         | $\perp \perp$      |        | $oxed{oxed}$                                 | _     |            | 144      |         | [      | [      |        |        |        |         |           |        |
|            | 45       | Ш              | L        |                       | $\perp$   | $\sqcup$            |        | $\perp$                                    |       |       | 95       |          | $\sqcup \!\!\! \perp$ |         |                    |        | $\sqcup \bot$                                | _[    |            | 145      |         |        |        |        |        | $\Box$ |         |           |        |
|            | 46       | Ш              | <u> </u> |                       |   | Ш                   | _      |  | 1     |       | 96       | <u>L</u> | $\sqcup \bot$         |         |                    |        | $\sqcup \bot$                                | _     |            | 146      |         |        |        |        |        |        |         |           |        |
|            | 47       | Ш              | 1        |                       | $\perp$   | Ļ.↓                 |        |  | 1     |       | 97       | L        |                       | $\perp$ |                    |        |  | _     |            | 147      | [       |        |        |        |        |        | $\Box$  | $\Box$    |        |
|            | 48       | $\sqcup$       | 1_       | $\sqcup \bot$         | $\bot$  | $\sqcup \downarrow$ |        |  |       |       | 98       | _        | <b> </b>              |         | 4.1                |        |  | _     |            | 148      |         | [      | $\Box$ | [      |        |        |         |           |        |
|            | 49       | Ц              | Ļ        | $\sqcup \bot$         |   | 1-1                 |        | $\perp$                                    |       |       | 99       |          |                       |         | $\perp \downarrow$ |        | <u> </u>                                     | _     |            | 149      |         | [      | [      | [      | [      |        |         | $\Box$    | $\Box$ |
| L          | 50       | $oldsymbol{V}$ | 1_       |                       |   | $\perp \perp$       |        |  | ****  |       | 100      |          |                       | _1_     | $\perp \perp$      |        |  | _:::: |            | 150      | $\perp$ |        |        |        |        |        |         |           |        |